Author Index

A

Alley N. F. 71
Archbold N. W. 635

B

Bai G. P. 525
Barley M. E. 299
Barron B. J. 231, 257
Barron L. M. 245, 257, 289
Bastian L. V. 31
Bierlein F. P. 177
Birch W. D. 387
Bone Y. 437
Brown M. C. 589, 687

C

Callen R. A. 71
Campbell I. H. 381
Carson C. J. 539
Cas R. A. F. 590
Claoué-Long J. C. 401
Cockshell C. D. 45
Coe R. S. 643
Colquhoun G. P. 497
Crosdale P. J. 91

D

Dawes P. R. 485
Deng J. 673
Dentith M. C. 15
Dobos S. K. 567
Dörling S. L. 15
Dougherty-Page J. S. 133
Duggan M. B. 269
Dyson I. A. 189

F

Fanning C. M. 539
Fergusson C. L. 497
Fielding C. R. 57
Flöttmann T. 45
Foden J. 133
Förster B. 177
Foster C. B. 401
Foster R. P. 1
Freyberg J. 279
Frost G. M. 643

G

Gilder S. A. 643
Gilkes R. J. 555
Golding S. D. 97, 567
Gray D. R. 103
Groves D. I. 15

H

Haack U. 177
Habteselassie M. M. 555
Hagemann S. G. 573
Haig D. W. 451
Hayden P. 201
Heithersay P. S. 279
Hobbs B. E. 161
Hooper B. 279
Horwitz R. C. 485

J

James N. P. 437
Jaques A. L. 269
Jenkins R. B. 423
Jones A. T. 479
Jones B. G. 57

K

Keene J. B. 525
Kent A. J. R. 573
Krapez B. 355
Krieg G. W. 71

L

Li Q. 437
Li Z. X. 591, 593
Lindhorst J. W. 279
Lishmund S. R. 257, 289

M

Mader C. L. 479
Mathison C. I. 555
Matthei L. 395
McDonald S. J. 217
McGowran B. 437
McPhie J. 147
McQueen K. G. 201
Medd D. 451
Messenger P. R. 97
Metcalfe I. 591, 605
Mills M. B. 279
Mortimer L. 103
Mortimer N. 467
Muhling P. 15

N

Nott J. 139, 687

O

Oakes G. M. 257, 289
Offler R. 423
Okada H. 509
Ord A. 161
Orr M. 687
O'Halloran G. J. 590

P

Pearson J. M. 299
Pirajno F. 311
Playford P. E. 15
Plimer I. R. 177
Powell C. McA. 591, 593
Purvis A. C. 687

R

Rees I. D. 567
Rich T. H. 625
Rickard M. J. 201
Roberts J. 401
Robertson A. D. 231
Roy P. S. 395
Rugless C. S. 311
Ryan P. 139

S

Scheibner E. 161
Schiøtte L. 381
Seddon G. 487
Shi G. R. 635
Skilbeck C. G. 217
Slater R. 91
Smale D. 467
Smithies R. H. 485
Sutherland F. L. 229, 231, 257, 323

T

Taylor W. R. 299
Tye S. C. 57

V

Vearncombe J. R. 15

W

Wang Q. 381
Warren J. K. 115
Webster A. E. 85
Wells P. 509
White M. J. 147
Wilson C. J. L. 539
Windrim D. 15
Withnall I. W. 567
Woolfe K. J. 91

Y

Young G. C. 625

Z

Zhai Y. 673
Zhang Y. 161
Zhang L. 593
Zhao X. 643

Australian Journal of Earth Sciences (1996) **43**, 696–699

Subject Index

A

accommodation zones, Fitzroy Trough and Lennard Shelf 15
Adaminaby Group, Lachlan Fold Belt 497
aeolianites, Spearwood Dune System 31
albitisation, Copperhead Albitite Carbonatite complex, east Kimberley 311
alkali
  basalts, eastern Australia 289
  igneous rocks, Gifford Creek Complex 299
alkaline rocks,
  associated mineralisation 229
  gemstones in 323
alluvial diamonds, eastern NSW 257
Ar-Ar analysis in gold mineralisation 573
Asian terranes, accretion history 605
Australia, fossil vertebrates 625

B

bathymetric cycles, Puri Anticline 451
basalts, alkali, eastern Australia 289
base-metals 115
basin-filling rhythms, sequence mapping of 355
basin formation, the Manning Group 423
biostratigraphy
  Abrakurrie Limestone 437
  Puri Creek Section, Puri Anticline 451
boron mineralisation, Dookie 387
Bowen Basin, radiometric dating 401
brachiopoda, western Pacific region 635
brines 115
Broken Hill Block, Delamerian refolding 85
burial history, Gunnedah Basin 217

C

Cainozoic carbonate province, southern Australia 437
calc-silicates, Dookie 387
Cambrian Tyndall Group, Mt Read Volcanics 147
Cambro-Ordovician Delamerian Orogeny, faulting 45
carbonate reef development, Pillara Range and Limestone Billy Hills 15
carbonatites, Copperhead Albitite Carbonatite Complex 311
Charleston Granite, Pb-Pb zircon evaporation dating 133
China
  fossil vertebrate analysis 625
  mineral resources 673
  palaeogeography, Gondwanaland 643
chlorites, the Manning Group 423
chronostratigraphy, Mt Morgan area 97
clay deposits, Late Cainozoic, Port Stephens area 395
Collinsville Coal Measures, Queensland 91
compression, horizontal 161
corundum, eastern Australia 289
Coombe Formation, Lachlan Fold Belt 497
copper-gold deposit, Northparkes 279
Copperhead Albitite Carbonatite Complex, geology and geochemistry 311
Cowarra gold deposit 201
crystallisation ages, Progress Granite 539
crustal stress, numerical modelling of 161

D

danburite, Dookie, Victoria 387
Dee volcanics, central Queensland 97
deformation
  Cowra Creek Goldfield 201
  Manning Group 423
  Melbourne Zone, Lachlan Fold Belt 103
  northeastern Lachlan Fold Belt 497
  Pillara Range, Canning Basin 15
Delamerian Orogeny
  central Queensland 567
  Olary Block, SA 177
Delamerian refolding, Broken Hill Block 85
depositional
  environment, Bowen Central Open Cut 91
  history, western Arnhem Land 139
  models, evaporites 115
  sequences, Precambrian successions 355
Devonian
  carbonate complex, Lennard Shelf 15
  tectonism and sedimentation, Mansfield Basin 589
diagenesis
  evaporites 115
  lithic sandstone, Gunnedah Basin 217
  Narrabeen Group sandstones 525
diamonds
  in alkaline rocks 323
  eastern NSW 257
Dookie Fault, Victoria 387
dune subdivision, Spearwood Dune system 31

E

Early Palaeozoic tectonism, Antarctica 539
east and southeast Asia
  continental blocks, origins 591, 605
  fossil vertebrate analysis 625
eastern Australia
  correlation with Russian sections 401
  crustal stress modelling 161
  economics, gold 1
element-scale mapping, Bowen Central Open Cut 91
Endeavour 48 copper-gold deposit 279
evaporites, base-metal association 115
evolution, eastern Tethys 605
exploration, gold 1

extensional basin sequence, southern New England Orogen 423
Eyre Formation, palynology 71

F

fault systems, Fitzroy Trough and Lennard Shelf 15
faulting, Lachlan Fold Belt 103
faunal provincialism, western Pacific region 635
fluid inclusions, Gunnedah Basin 217
fluvial system, Proterozoic 139
fold interference patterns, Lachlan Fold Belt 103
foraminifers
  Abrakurrie limestone 437
  Puri Creek Section, Papua New Guinea 451
  Vema cored hole V18-222 509
fossil vertebrate analysis, China and Australia 625
fractionation, Mt Townsend dyke 245

G

galena, Olary Block, Willyama Supergroup 177
gemstones in alkaline rocks 323
geochemistry
  Copperhead Albitite Carbonatite Complex 311
  lamprophyres, Tennant Creek Inlier 269
  Windimurra Complex 555
geochronology
  Anakie Metamorphic Group 567
  Lake Johnston greenstone belt 381
geodynamic evolution 355
geological time-scales 487
geology
  Copperhead Albitite Carbonatite Complex 311
  philosophy and education 487
geotectonic history, China 673
geothermal gradient, Manning Group 423
giant lunate current ripples, Kombolgie Formation 139
Gifford Creek Complex 299
gold
  deposits, Cowarra 201
  economics 1
  mineralisation, Wiluna greenstone belt 573
Gondwana (land)
  and southeast Asian cratons 593
  breakup of 591, 605, 625
  dispersion and tectonic history 605
  palaeogeography 643
  reconstruction models 539
granite, Gifford Creek Complex 299
gravitational creep, eastern Australia 161
Gunnedah Basin 217

H

heavy mineral assemblages, Spearwood Dune system 31
Holocene glacial palaeoceanography 509
horizontal compression, eastern Australia 161
hummocky cross-stratification, Cape Liptrap 189

K

Kanmantoo Trough, South Australia 45
K-Ar dating, Anakie Metamorphic Group 567
'Karuah clays', Port Stephens area 395
komatiites, Lake Johnston greenstone belt 381
Kombolgie Formation, giant lunate current ripples 139

L

Lake Johnston greenstone belt 381
Lalla Rookh Basin, sequence stratigraphy 355
lamprophyres
  Mt Townsend dyke 245
  Tennant Creek Inlier 269
lateritic weathering, Windimurra Complex 555
layered intrusions 555
lead isotope analysis, Olary Block 177
Lennard Shelf, structural evolution 15
liquid immiscibility, Mt Townsend dyke 245
lithic sandstone, Gunnedah Basin 217

M

macrofloras, southern Lake Eyre Basin 71
Maggie Hays nickel prospect 381
magmatism
  Mt Morgan area, central Queensland 97
  Tennant Creek Inlier 269
magnetite gabbros, Windimurra Complex 555
Mawson Lecture, 1996 487
'Medowie clays', Port Stephens area 395
megacrysts, Hoskings Peaks 231
metallogeny, China 673
metamorphism
  Anakie Metamorphic Group 567
  Manning Group 423
metasomatism
  Ascot Hills, Dookie 387
  Gifford Creek Complex 299
  Hoskings Peaks 231
Middle Devonian volcanic sequences, central Queensland 97
Middle Eocene macrofloras, Lake Eyre Basin 71
mineralisation
  China 673
  Cowra Creek 201
  gold, Wiluna greenstone belt 573
  Northparkes project 279
mineralogy
  lamprophyres, Tennant Creek Inlier 269
  Narrabeen Group sandstones 525
  Windimurra Complex 525
mining, gold 1
mire death, Collinsville Coal Measures 91
Mt Dromedary Igneous Complex (Discussion/Reply) 687
Mt Morgan Tonalite, central Queensland 97
Mt Townsend lamprophyric dyke 245
Mt Wellington Belt, north central Victoria 387

N

nannofossils, Vema cored hole V18-222 509
Narrabeen Group sandstones, diagenesis 525

Neoproterozoic
  dating, Anakie Metamorphic Group 567
  rifting, Rodinia supercontinent 593
New England Orogen, Permian successions 401
Nicholas Rock Symposium 229
nickel mineralisation, Lake Johnston greenstone belt 381
North China Block, tectonic history 593
Northparkes, Endeavour 48 deposit 279

O

Olary Block, sulfide mineralisation 177
olivine 'leucitites', Hoskings Peaks 231
Ordovician quartz turbidite fan, Lachlan Fold Belt 497
Ordovician turbidites, New South Wales 201

P

palaeobathymetry, Papua New Guinea 451
palaeobiogeography, marine invertebrates, western Pacific 635
palaeoceanography, late Quaternary, eastern Australia 509
palaeoclimate, Middle Eocene, central Australia 71
palaeoenvironment, Eucla Basin 437
palaeogeography
  China 643
  southern Sydney Basin 59
  Walhalla Group 189
palaeohydrology, western Arnhem Land 139
palaeomagnetism, China 643
Palaeoproterozoic Broken Hill Block 85
palaeovolcanology, Mt Read Volcanics 147
Palaeozoic basins, southern Australia 45
palynology, Eyre Formation 71
Pb–Pb zircon evaporation dating, Charleston Granite 133
Permian
  marine invertebrates, western Pacific 635
  system, eastern Australia 401
  stratigraphy and sedimentology, southern Sydney Basin 57
petrogenesis, Hoskins Peaks 231
petrology
  Narrabeen Group sandstones 525
  Topfer Formation, New Zealand 467
  Windimurra Complex 555
plate motion, eastern Australia 161
Pleistocene
  glacial palaeoceanography, southeastern Australia 509
  lake deposits, eastern NSW 395
  Spearwood Dune system 31
Precambrian, sequence stratigraphy 355
Progress Granite, eastern Antarctica 539
Proterozoic
  fluvial system, western Arnhem Land 139
  shoshonitic lamprophyres, Tennant Creek Inlier 269
Puri Anticline, PNG 451

Q

quartz-rich turbidites, Lachlan Fold Belt 497
quasi-planar lamination, Cape Liptrap 189

R

radiometric dating, eastern Australia 401
rare-earth elements, Copperhead Albitite and Carbonatite Complex, east Kimberley 311
reef development, Pillara Range and Limestone Billy Hills 15
Rodinia
  breakup of 591, 605
  supercontinent, tectonic history 593
rubies in alkali basalts 323

S

sandstone diagenesis, Narrabeen Group 525
sapphires
  in alkali basalts 323
  in alkali basalts and volcaniclastic rocks, eastern Australia 289
sedimentology, Talaterang and Shoalhaven Groups 59
seismic profiles, southern Australia 45
sequence mapping, Precambrian successions 355
shoshonites
  Endeavour 48 deposit, Northparkes 279
  Tennant Creek Inlier 269
SHRIMP zircon dating
  eastern Australia 401
  Larsemann Hills 539
silcrete, southern Lake Eyre Basin 71
South China Block, tectonic history 593
southern Sydney Basin, stratigraphy and sedimentology 59
Spearwood Dune system 31
Stansbury Basin, South Australia 45
stratigraphy
  lower Nelly Creek, Lake Eyre Basin 71
  Permian Talaterang and Shoalhaven Groups 57
structural
  geology, Pillara Range and Limestone Billy Hills 15
  history, Palaeozoic basins, southern Australia 45
subduction diamond model, eastern NSW 257
sulfide mineralisation, Willyama supergroup 177
Sunrise Hill unconformity, northern Pilbara Craton (Discussion, Reply) 485
Sydney Basin
  radiometric dating 401
  stratigraphy and sedimentology 57

T

Tamala Limestone, Spearwood Dune system 31
Tarim Block, tectonic history 593, 643
tectonic evolution
  Lachlan Fold Belt 103
  Sydney Basin 59
tectonics
  Anakie Metamorphic Group 567
  China block 643
  eastern NSW 257
  Gondwanaland 605
  Puri Anticline, Papua New Guinea 451
  southern New England Orogen 423
  Willyama supergroup 177

tectonostratigraphic analysis, Rodinia supercontinent 593
tempestites, Walhalla Group 189
Tennant Creek Inlier, geochemistry and mineralogy 269
tephrites, Mt Townsend dyke, NSW 245
Tethys, evolution of 605
Topfer Formation, New Zealand, petrology 467
Triassic stratigraphic correlation, New Zealand and Australia 467
Troubridge Basin, South Australia 45
tsunami propagation modelling 479
turbidites
  Ordovician 201
  quartz-rich 497
Turee Creek Basin, sequence stratigraphy 355
Tyndall Group, Mt Read Volcanics, stratigraphy and palaeovolcanology 147

U

ultra-basic rocks, Gifford Creek Complex 299
U–Pb zircon
  dating, Wiluna greenstone belt 573
  geochronology, Yilgarn Craton 381
uranium-lead dating, Progress Granite 539

V

Vanadium, Windimurra complex 555
Vema cored hole V18-222 509
vitrinite reflectance, Manning Group 423
volcanic detritus, Topfer Formation 467
volcanism
  eastern Australia 289
  eastern NSW 395
  Lachlan Fold Belt 497
  Mt Morgan area 97

W

Walhalla Group, palaeogeography 189
wave erosion, southeastern Australia 479
Willyama Supergroup, NSW 85
Wiluna greenstone belt, Yilgarn Craton 573
Windimurra Complex, WA 555

Y

xenocrysts, Hoskins Peaks 231
xenoliths, Hoskins Peaks 231

Z

zircon geochronology techniques 133
zircons in alkali basalts 323